Deliver or Mail all Applications to:
MCAQD Permit Application Intake
1001 N Central Avenue, Suite 125
Phoenix AZ 85004
http://www.maricopa.gov/aq/

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SEP 26 2014
MARICOPA COUNTY
AIR QUALITY DEPARTMENT

FOR OFFICIAL USE ONLY
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LOG NUMBER
140062 - 404741

Check # 76846 $200 W

APPLICATION FOR NON-TITLE V AIR QUALITY PERMIT

(As required by A.R.S. §49-480 and Maricopa County Air Pollution Control Regulations, Rule 200)

READ INSTRUCTIONS FIRST. ALL APPLICANTS MUST COMPLETE ITEMS 1 THROUGH 20 AND EACH APPLICABLE SECTION A THROUGH Z.

1. BUSINESS NAME (as filed with the Arizona Corporation Commission): Hickman's Egg Ranch, Inc.

2. IS THIS A PORTABLE SOURCE ? ☐ YES (IF YES, PROVIDE THE CURRENT SITE INFORMATION IN ITEMS 2a, 3, AND 3a) ☒ NO (COMPLETE ITEMS 2a, 3, AND 3a)

2a. ADDRESS OF SITE: 41625 West Indian School Road
CITY: Tonopah STATE: AZ ZIP CODE: 85354

2b. PARCEL #: 506-34-039A LOOKUP AT: http://mcassessor.maricopa.gov/Assessor/ParcelApplication/Default.aspx

3. CONTACT PERSON AT SITE: Frank G. Ruiz
3a. TELEPHONE AT SITE: 623-764-3878

4. TYPE OF OWNERSHIP: ☒ Corporation ☐ Partnership ☐ Sole Owner ☐ Government ☐ Other - Specify:

5. NAME AND ADDRESS OF OWNERSHIP OR LEGAL ENTITY: Hickman's Egg Ranch, Inc.
6515 South Jackrabbit Trail
Buckeye, Arizona 85326

6. OWNERSHIP CONTACT: Glenn Hickman
6a. TELEPHONE: 623-872-1120
6b. FAX: 623-872-9220

7. SEND ALL CORRESPONDENCE INCLUDING INVOICE AND PERMIT TO:
COMPANY NAME: Hickman's Egg Ranch, Inc.
ADDRESS: 6515 South Jackrabbit Trail
CITY: Buckeye STATE: Arizona ZIP CODE: 85326
ATTN: Glenn Hickman

8. SIC (STANDARD INDUSTRIAL CLASSIFICATION) OR NAICS (NORTH AMERICAN INDUSTRY CLASSIFICATION) CODE(S):

9. IS THIS A RENEWAL APPLICATION? YES ☐ NO ☒
IF YES, ENTER THE EXISTING AIR PERMIT NUMBER FOR THIS SITE:

10. IF THIS APPLICATION IS SUBMITTED AS A RENEWAL APPLICATION, HAS THE OWNERSHIP OF THIS FACILITY CHANGED SINCE THE PERMIT WAS LAST ISSUED OR TRANSFERRED? YES ☐ NO ☐

11. BRIEF DESCRIPTION OF BUSINESS OR PROCESS AT SITE: Egg Producer

12. OPERATING SCHEDULE: HOURS PER DAY: 8 DAYS PER WEEK: 7 WEEKS PER YEAR: 52
13. PROJECTED START-UP DATE (NEW FACILITIES): October 2014

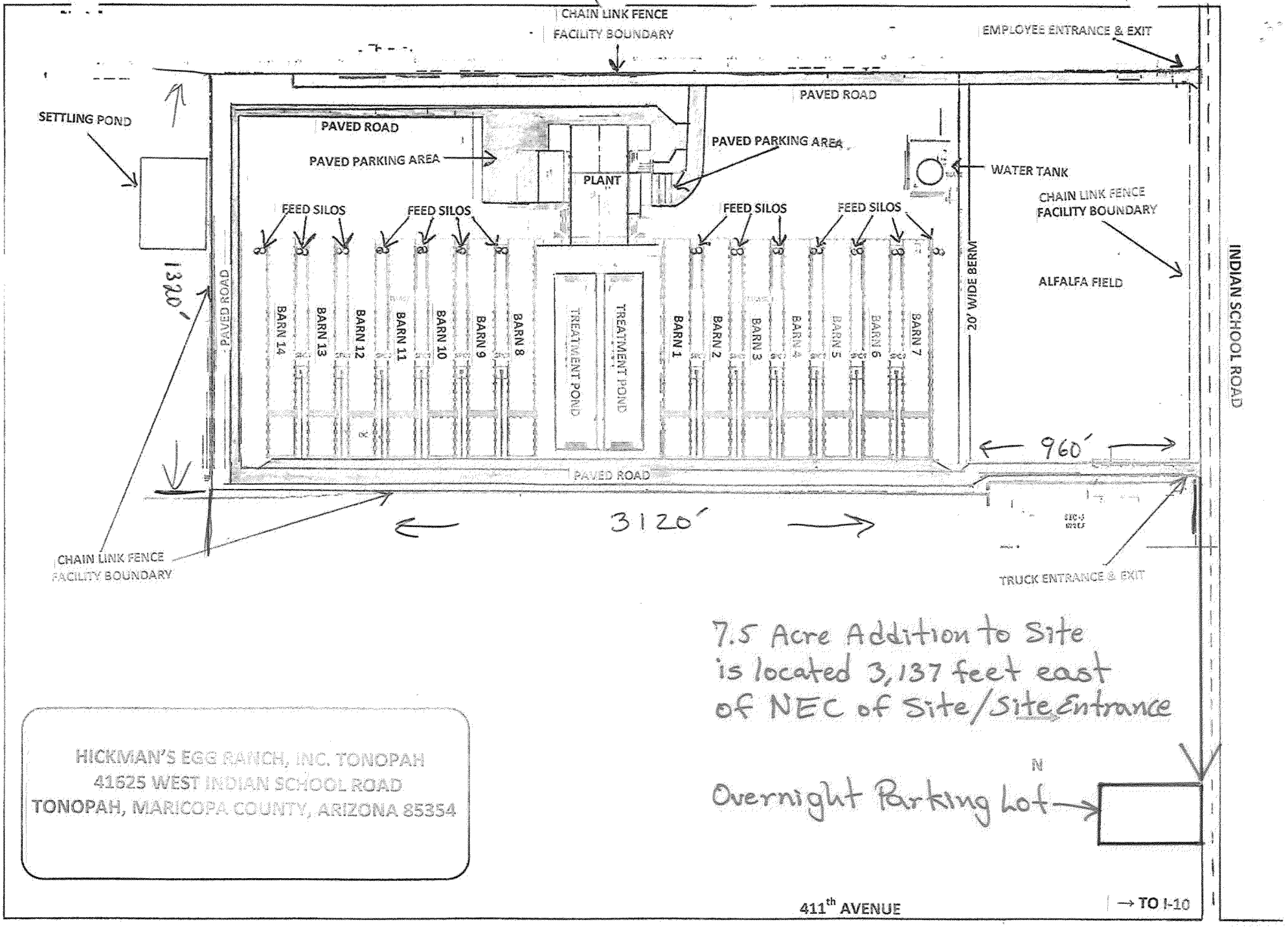
14. THE AUTHORIZED CONTACT PERSON REGARDING THIS APPLICATION IS:

NAME: Francisco G. Ruiz
TELEPHONE: 623-764-3878
TITLE: Safety & Health Coordinator
FAX: 623-474-6392
COMPANY: Hickman's Egg Ranch, Inc.
E-MAIL: fruiz@hickmanseggs.com

15. I CERTIFY THAT I AM FAMILIAR WITH THE OPERATIONS AND EQUIPMENT REPRESENTED ON THIS APPLICATION AND ATTACHMENTS AND THE INFORMATION PROVIDED HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

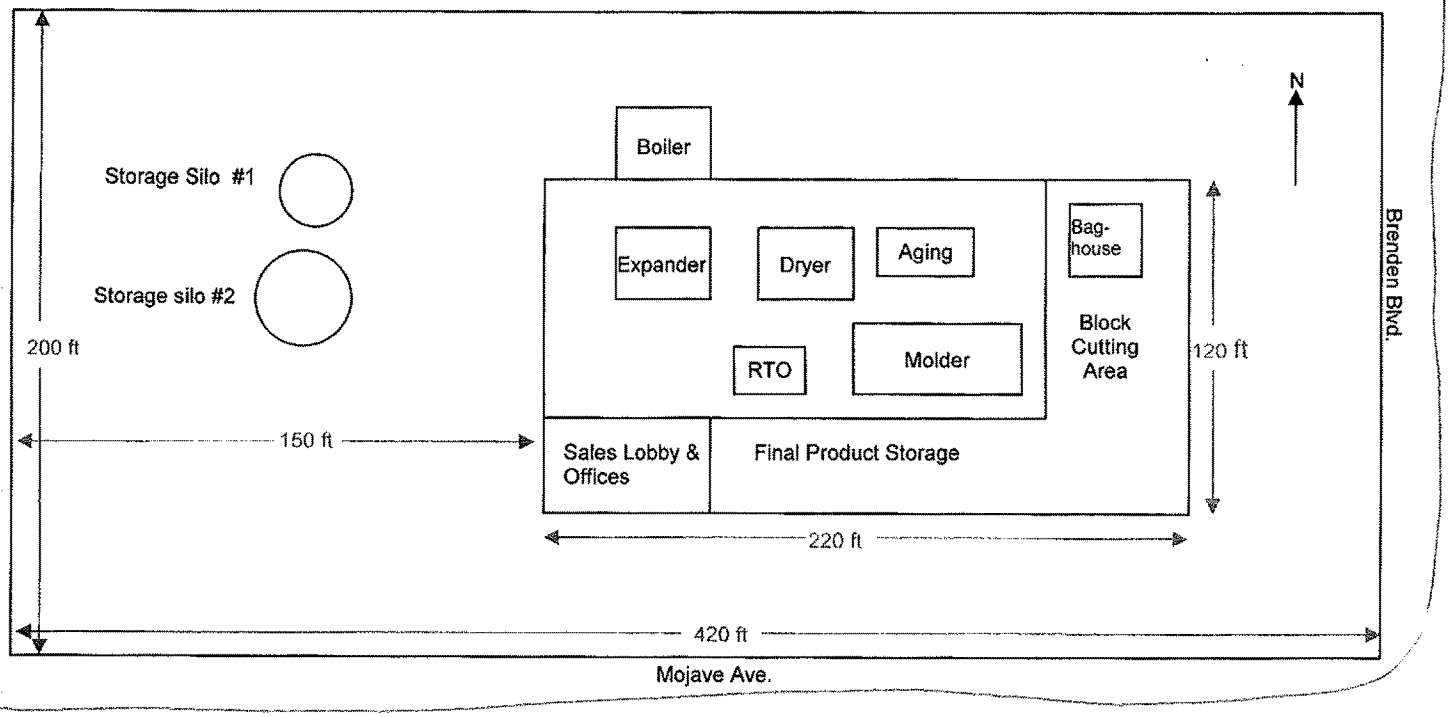
SIGNATURE OF OWNER OR RESPONSIBLE OFFICIAL OF BUSINESS: [signature]
DATE: 9-9-14

TYPE OR PRINT NAME AND TITLE: Glenn Hickman / Owner


CHAIN LINK FENCE
FACILITY BOUNDARY
EMPLOYEE ENTRANCE & EXIT
PAVED ROAD
SETTLING POND
PAVED ROAD
PAVED PARKING AREA
PAVED PARKING AREA
PLANT
WATER TANK
CHAIN LINK FENCE
FACILITY BOUNDARY
FEED SILOS
FEED SILOS
FEED SILOS
FEED SILOS
1320'
PAVED ROAD
BARN 14
BARN 13
BARN 12
BARN 11
BARN 10
BARN 9
BARN 8
TREATMENT POND
TREATMENT POND
BARN 1
BARN 2
BARN 3
BARN 4
BARN 5
BARN 6
BARN 7
20' WIDE BERM
ALFALFA FIELD
960'
PAVED ROAD
3120'
INDIAN SCHOOL ROAD
CHAIN LINK FENCE
FACILITY BOUNDARY
TRUCK ENTRANCE & EXIT
7.5 Acre Addition to Site
is located 3,137 feet east
of NEC of Site/Site Entrance
N
Overnight Parking Lot
HICKMAN'S EGG RANCH, INC. TONOPAH
41625 WEST INDIAN SCHOOL ROAD
TONOPAH, MARICOPA COUNTY, ARIZONA 85354
411th AVENUE
→ TO I-10

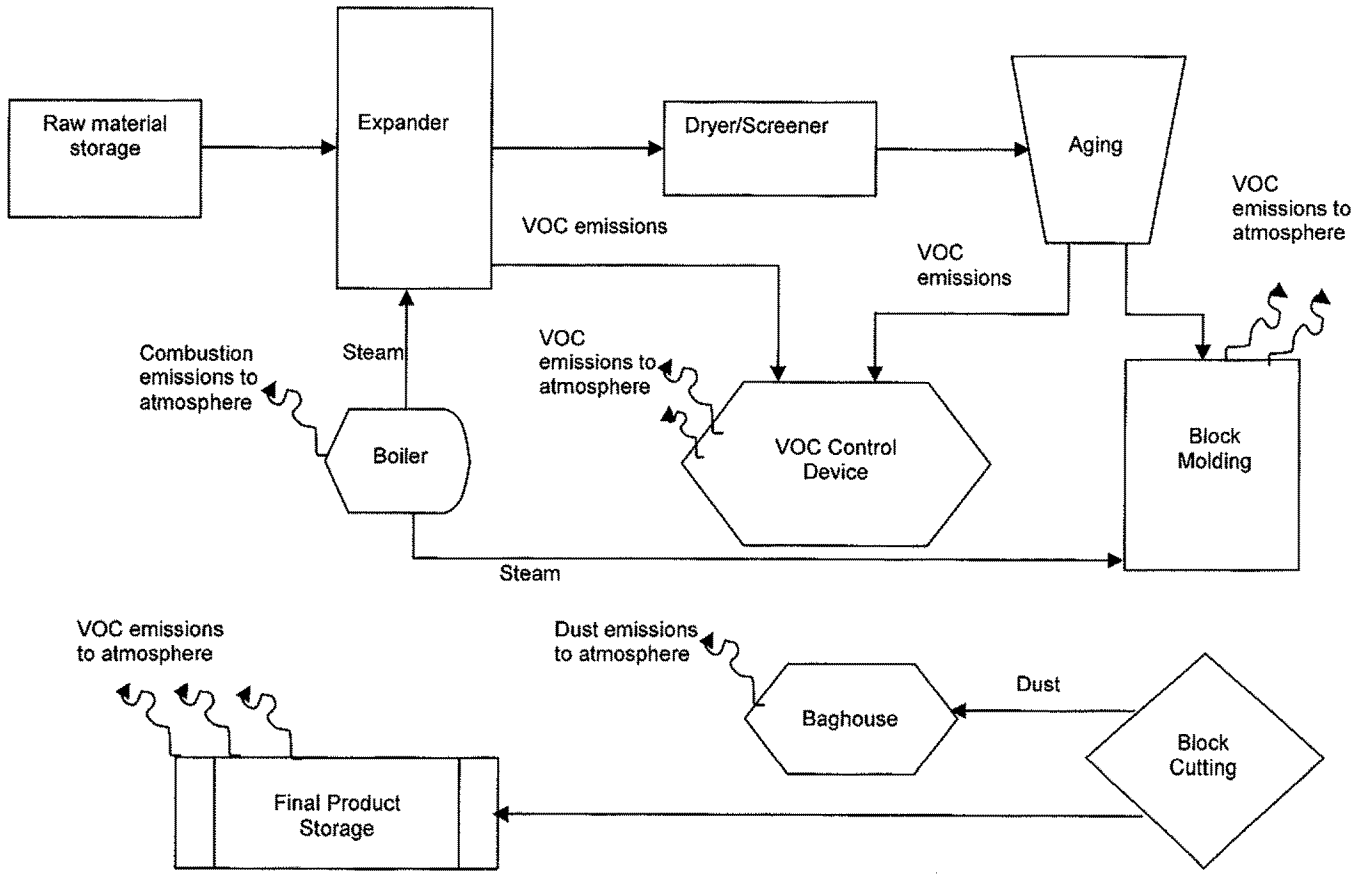
16. SITE DIAGRAM: attach a site layout showing distances to property lines, equipment, controls, ducts, stacks and emission points. Also show storage areas for fuels, raw materials, chemicals, finished products, waste materials, etc.

EXAMPLE SITE DIAGRAM



17. PROCESS FLOW DIAGRAM: Attach a flow diagram which indicates how processes/activities are conducted at the facility. Begin with raw materials and show each step in the production process. Also indicate emissions control devices and all emission points. An example process flow diagram is provided below.

EXAMPLE PROCESS FLOW DIAGRAM



18. OPERATION & MAINTENANCE (O&M) PLAN(S): O&M Plans are required for any process that vents emissions through a control device and includes both add-on control type equipment or processes whose controls are integrated into the design of the process equipment. Indicate if your facility has such control devices (the list below is not an all-inclusive list of control devices).

EQUIPMENT	NO	YES	HOW MANY?
BAGHOUSE	☐	☐	_____
DUST COLLECTOR / FILTER	☐	☐	_____
INCINERATION SYSTEM (E.G., CATALYTIC OR THERMAL OXIDIZER, AFTER BURNER, BOILER, PROCESS HEATER, FLARE) – SPECIFY: _____	☐	☐	_____
SCRUBBER	☐	☐	_____
ADSORPTION UNIT (E.G., RESIN, CARBON FILTER, OTHER) – SPECIFY: _____	☐	☐	_____
ABSORPTION UNIT	☐	☐	_____
OTHER – SPECIFY: _____	☐	☐	_____

If you checked YES to any of these boxes, attach a separate O&M Plan for each control device. The O&M Plan should describe key system operating parameters and appropriate operating ranges for these parameters. For new equipment or processes, provide an educated estimate of the ranges of any parameters to be monitored. These ranges should be supported with manufacturer's test data or other manufacturer's data from engineering calculations and/or experience with the equipment. In addition, O&M Plans should be prepared in accordance with Maricopa County Air Quality Department - Operation and Maintenance (O&M) Plan Guidelines. A copy of these guidelines can be obtained at: http://www.maricopa.gov/aq/divisions/permit_engineering/docs/pdf/OMGuidelines.pdf or by contacting the Permits Program Coordinator at (602) 506-6094. Multiple control devices can be combined in a single O&M Plan providing they are identical in type, capacity, and use. A separate O&M Plan is required for each device that is unique in type, capacity, or use.

19. DUST CONTROL PLAN: The owner and/or operator of a dust-generating operation shall submit to the Control Officer a Dust Control Plan with any permit applications that involve dust-generating operations with a disturbed surface area that equals or exceeds 0.10 acre (4,356 square feet). Facilities subject to Rule 316: Nonmetallic Mineral Processing are also required to submit a Dust Control Plan.

REQUIREMENT	NO	YES	DISTURBED SURFACE AREA ≥ 0.10 ACRE	SUBJECT TO RULE 316
DUST CONTROL PLAN	☐	☐	☐	☐

For further guidance completing the dust control plan, review the "Guidance For Dust Control Permit For Application" document located at http://www.maricopa.gov/aq/divisions/compliance/dust/docs/pdf/DustControlPlanStationarySource.pdf or contact the Dust Compliance Division at (602) 506-6010.

20. APPLICABLE SECTIONS: Review each section of the application and mark below which sections apply to this facility. In the final application, only submit those sections that apply to this facility. Note that Sections L and Z must be completed by all applicants.

- ☐ A FUEL BURNING EQUIPMENT
- ☒ B INTERNAL COMBUSTION ENGINES & TURBINES
- ☐ C PETROLEUM STORAGE TANKS
- ☐ D WATER & SOIL REMEDIATION
- ☐ E-1 SPRAY PAINTING & OTHER SURFACE COATING (EXCLUDING VEHICLE AND WOOD COATING)
- ☐ E-2 VEHICLE & MOBILE EQUIPMENT COATING
- ☐ F WOOD WORKING AND WOOD COATING OPERATIONS
- ☐ G SOLVENT CLEANING
- ☐ H PLATING, ETCHING & OTHER METAL FINISHING PROCESSES
- ☐ I DRY CLEANING EQUIPMENT
- ☐ J GRAPHIC ARTS
- ☐ K-1 CONCRETE BATCH PLANTS
- ☐ K-2 NON-METALLIC MINERAL MINING AND PROCESSING
- ☐ K-3 ASPHALT PRODUCTION
- ☐ K-4 NON-METALLIC MINERAL PROCESSING - CONTINUED
- ☒ L OTHER DUST GENERATING OPERATIONS
- ☐ M ABRASIVE BLASTING
- ☐ X-1 POINT SOURCE EMISSIONS OF HAZARDOUS AIR POLLUTANTS
- ☐ X-2 NON-POINT AREA EMISSION SOURCES FOR HAZARDOUS AIR POLLUTANTS
- ☐ Y OTHER SOURCES
- ☒ Z AIR POLLUTANT EMISSIONS

SECTION A. EXTERNAL FUEL BURNING EQUIPMENT

YOUR FACILITY MAY NOT REQUIRE A NON-TITLE V PERMIT IF THE FACILITY IS ELIGIBLE TO OBTAIN AN AUTHORITY TO OPERATE (ATO) UNDER A GENERAL PERMIT (REFER TO PAGE 4 OF THE INSTRUCTION TO DETERMINE ELIGIBILITY).

Complete this section if you burn natural gas, propane, butane, waste derived fuel, fuel oils, diesel, kerosene, gasoline, coal, charcoal, wood, or any other fossil fuel. Provide complete specifications for non-commercial and special fuels. Describe equipment such as boilers, furnaces, space heaters, water heaters, dryers, pool and spa heaters, kilns, ovens, burners, stoves, steam cleaners, hot water pressure washers, etc, with an input rating of 300,000 Btu/hr or more. Do not include vehicles, forklifts, lawnmowers, weedeaters and hand-held equipment operating on fossil fuels. Use Section Y to describe items such as asphalt kettles, incinerators, crematories, and emission control devices burning fuel. List internal combustion engines and gas turbines in Section B.

FUEL TYPE	EQUIPMENT DESCRIPTION. INCLUDE MAKE & MODEL. DESCRIBE AIR POLLUTION ABATEMENT/CONTROLS, IF ANY	DATE OF INSTALLATION	HOW MANY	NUMBER OF HOURS IN OPERATION DAILY	NUMBER OF HOURS IN OPERATION ANNUALLY	EQUIPMENT RATING (Btu/hr or MM Btu/hr)

SECTION B. INTERNAL COMBUSTION ENGINES & TURBINES

This section applies to stationary and portable fuel-fired equipment such as generators, fire pumps, air conditioning compressor engines, co-generation units, etc. Indicate in the description if the equipment is used only for emergency purposes. Attach the manufacturer's specification sheets for each engine listing the engine make, model, model year, emission data, and maximum engine power rating. Do not include vehicles, forklifts, lawnmowers and hand-held equipment. Use additional sheets if necessary.

FUEL TYPE	EQUIPMENT DESCRIPTION. INCLUDE MAKE, MODEL, AND INSTALLATION DATE. DESCRIBE AIR POLLUTION ABATEMENT/CONTROLS, IF ANY	DATE OF MANUFACTURE	HOW MANY	NUMBER OF HOURS IN OPERATION DAILY	NUMBER OF HOURS IN OPERATION ANNUALLY	ENGINE RATING[1] (bhp,bkW)	GENSET OUTPUT[2] (hp,kW)
Diesel	*KOHLER 1000 Kw, Model 1000REOZM Generator	2004	1			1528 HP	1528 HP, 1000 KW
Diesel	*Cummins Generators Model: QSL9-G7-NR3, 250 kw	2014	10			464 HP	464 HP, 250 KW
Diesel	*Cummins Generator Model: QSL9-G2-NR3, 200 kw	2014	1			364 HP	364 HP, 200 KW
	***These Back-up Generators will be operating 52 hours per year for weekly testing**						

[1] Enter the brake horsepower (bhp) or brake kilowatt (bkW) rating of the engine. This information may be found on the engine faceplate or obtained from the engine manufacturer. NOTE: The engine bhp/bkW rating should not be confused with the output power rating of the generator.

[2] Enter the output power rating of the generator. This information may be found on the generator faceplate or obtained from the generator

Equipment list

Hickman's Egg Ranch, Inc.
Tonopah, Arizona 85354

Equipment Description

Emergency Generators:

1. EMERGENCY GENERATOR – G-1, DIESE, ENGINE: 364 HP
   CUMMINS QSL9-G2 NR3, 200 KW, MANUFACTURED 2014

2. EMERGENCY GENERATOR – G-2, DIESEL ENGINE: 1528 HP
   KOHLER 1000REOZM, 1000 KW, MANUFACTURED 2004

3. EMERGENCY GENERATOR – G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, G-11, G-12, DIESEL
   ENGINE: QSL9-G7 NR3, 250 KW, MANUFACTURED 2014

SECTION L. OTHER DUST GENERATING OPERATIONS

THIS SECTION IS INTENDED FOR ALL DUST GENERATING OPERATIONS NOT COVERED ELSEWHERE IN THE PERMIT APPLICATION.

1. ARE ROUTINE DUST-GENERATING OPERATIONS PERFORMED AT THIS FACILITY THAT DISTURB A SURFACE AREA OF 0.10 ACRE OR GREATER? ☐ Yes ☒ No

2. HOW MANY ACRES OF DISTURBED LAND ARE LOCATED AT THIS FACILITY? 183.9 Acres

3 ARE ANY UNPAVED PARKING LOTS LOCATED AT THIS FACILITY? ☐ Yes ☒ No

4. ARE ANY UNPAVED HAUL/ACCESS ROADS PRESENT AT THIS FACILITY? ☐ Yes ☒ No

5. IF THE ANSWER TO ITEM 4 IS "YES", HOW MANY VEHICLE TRIPS ARE MADE DAILY ON EACH UNPAVED ROAD? _____

6. ARE BULK MATERIALS HANDLED, STORED, OR TRANSPORTED AT THIS FACILITY? BULK MATERIALS INCLUDE BUT ARE NOT LIMITED TO, NON-METALLIC MINERALS, SOIL, DEMOLITION DEBRIS, COTTON, TRASH, SAW DUST, FEED, GRAIN, FERTILIZERS, FLUFF FROM SHREDDERS, DRY CONCRETE OR ANY OTHER MATERIAL THAT IS CAPABLE OF PRODUCING FUGITIVE DUST.
☒ Yes ☐ No

7. IF THE ANSWER TO ITEM 6 IS "YES", LIST THE TYPE AND AMOUNT (TONS PER YEAR) OF BULK MATERIAL(S) HANDLED, STORED AND/OR TRANSPORTED:

a. Chicken Feed – The chicken feed will be delivered from our feed mill at Arlington, Arizona and store in 16 silos, each silo capacity is 29 tons and the amount per year to feed our chickens will be 87,360 tons.

c. _____

b. _____

d. _____

8. ARE ANY BLASTING OPERATIONS USING EXPLOSIVES PERFORMED AT THIS FACILITY? ☐ Yes ☒ No

9. ARE ANY OPEN STORAGE PILES LOCATED AT THIS FACILITY? ☐ Yes ☒ No

10. IF THE ANSWER TO ITEM 9 IS "YES", HOW MANY ACRES DO THE STORAGE PILES COVER? _____

11. DO YOU HAVE ANY UNPAVED STAGING OR MATERIAL STORAGE AREAS? ☐ Yes ☒ No

12. DO YOU HAVE AN EASEMENTS, RIGHTS-OF-WAY, OR ACCESS ROADS FOR UTILITIES (TRANSMISSION OF ELECTRICITY, NATURAL GAS, OIL, WATER, AND GAS)? ☐ Yes ☒ No

13. BRIEFLY DESCRIBE HOW TRACKOUT IS CONTROLLED AT EXITS FROM UNPAVED ROADS AT THIS FACILITY THAT LEAD TO PAVED AREAS ACCESSIBLE TO THE PUBLIC:
The Facility Exits will be Pave, and gravel for the Parking Lot.

14. SUBMIT A DUST CONTROL PLAN WITH THIS APPLICATION IF THIS FACILITY IS INVOLVED IN DUST-GENERATING OPERATIONS THAT EQUAL OR EXCEED 0.10 ACRE (4,356 SQUARE FEET) INCLUDING THE FOLLOWING:
   a. Name(s), address(es), and phone numbers of person(s) responsible for the submittal and implementation of the dust control plan and responsible for the dust-generating operation.
   b. A drawing, on 8½" x 11" paper, that shows entire project site/facility boundaries, acres to be disturbed with linear dimensions, nearest public roads, north arrow, and planned exit locations onto paved areas accessible to the public.
   c. Appropriate control measures, or a combination thereof, for every actual and potential dust-generating operation.
   d. One contingency control measure must be identified for all dust-generating operations.
   e. The maximum number of vehicle trips on unpaved haul/access roads each day (including number of employee vehicles, earthmoving equipment, haul trucks, and water trucks).
   f. Dust suppressants to be applied, method, frequency, and intensity of application; type, number, and capacity of application equipment; and information environmental impacts and approvals or certifications related to appropriate and safe use for ground application.
   g. Specific surface treatment(s) and/or control measures utilized to control material trackout and sedimentation where unpaved roads and/or access points join paved areas accessible to the public.

FOR FURTHER GUIDANCE COMPLETING THE DUST CONTROL PLAN, REVIEW THE "GUIDANCE FOR DUST CONTROL PERMIT FOR APPLICATION" DOCUMENT LOCATED AT http://www.maricopa.gov/aq/divisions/compliance/dust/docs/pdf/DustControlPlanStationarySource.pdf OR CONTACT THE DUST COMPLIANCE DIVISION AT (602) 506-6010.

SECTION Z. AIR POLLUTANT EMISSIONS

PROVIDE A SUMMARY OF THE PROJECTED ACTUAL AIR EMISSIONS ON AN ANNUAL BASIS FOR THE ENTIRE SITE IN THE FOLLOWING SUMMARY TABLES. ATTACH DETAILED CALCULATIONS TO SUPPORT THE FIGURES. **IF SUPPORTING CALCULATIONS ARE NOT INCLUDED WITH THE APPLICATION, THE APPLICATION WILL BE DEEMED INCOMPLETE.**

POLLUTANT	EMISSIONS (lb/yr)
CARBON MONOXIDE (CO)	
OXIDES OF NITROGEN (NO_X)	
OXIDES OF SULFUR (SO_X)	
PARTICULATES OF 10 MICRONS OR SMALLER (PM_{10})	
TOTAL SUSPENDED PARTICULATES (TSP), INCLUDING PM_{10}	
VOLATILE ORGANIC COMPOUNDS (VOCs) [1]	
LEAD	
FEDERAL HAZARDOUS AIR POLLUTANTS (LIST EACH ONE SEPARATELY):	

[1] VOCs are defined by EPA at: http://www.epa.gov/ttn/naaqs/ozone/ozonetech/def_voc.htm

Do not include the emissions from motor vehicles. Include the emissions from stationary sources, portable sources, test areas, experimental facilities, evaporative losses, storage and handling losses, fuel loading and unloading losses, etc. Specifically identify the following in detailed calculations:

1. EMISSIONS FROM EACH POINT SOURCE AND EACH STACK
2. CAPTURE EFFICIENCIES
3. CONTROL EFFICIENCIES
4. OVERALL EFFICIENCIES
5. FUGITIVE EMISSIONS
6. NON-POINT (AREA) EMISSIONS

For particulate (dust) emissions, describe the types of particulates being emitted and the quantities of emissions for each type. Whenever a material is identified by a trade name, also provide its generic name and its chemical abstract service (CAS) number.

Help sheets for calculating emissions from specific industries or processes can be obtained at:
http://www.maricopa.gov/aq/divisions/planning_analysis/emissions_inventory/instructions.aspx

If you need help completing the application package, please see our website or contact 602-506-5102.
http://www.maricopa.gov/aq/

Power Generation

Exhaust Emission Data Sheet
200DSHAC
60 Hz Diesel Generator Set
EPA NSPS Stationary Emergency

Engine Information:

Model: Cummins Inc. QSL9-G2 NR3

Type: 4 Cycle, In-line, 6 Cylinder Diesel
Aspiration: Turbocharged and CAC
Compression Ratio: 16.8:1
Emission Control Device: Turbocharger and CAC

Bore: 4.49 in. (114 mm)
Stroke: 5.69 in. (145 mm)
Displacement: 543 cu. in. (8.9 liters)

	1/4	1/2	3/4	Full	Full
PERFORMANCE DATA	**Standby**	**Standby**	**Standby**	**Standby**	**Prime**
Engine HP @ Stated Load (1800 RPM)	78	156	233	311	282
Fuel Consumption (gal/hr)	4.6	9.1	13.1	16.4	15.2
Exhaust Gas Flow (CFM)	724	935	1004	1143	1106
Exhaust Temperature (°F)	616	755	906	1039	990
EXHAUST EMISSION DATA					
HC (Total Unburned Hydrocarbons)	0.21	0.10	0.06	0.05	0.05
NOx (Oxides of Nitrogen as NO2)	2.1	2.5	2.8	3.5	3.4
CO (Carbon Monoxide)	2.18	1.37	0.87	0.30	0.36
PM (particular Matter)	0.09	0.06	0.05	0.05	0.04
SO2 (Sulfur Dioxide)	0.15	0.15	0.14	0.14	0.14
Smoke (Bosch)	1.8	2.1	1.5	1.0	1.6
					All values are Grams per HP-Hour

TEST CONDITIONS

Data was recorded during steady-state rated engine speed (± 25 RPM) with full load (±2%). Pressures, temperatures, and emission rates were stabilized.

Fuel Specification: 46.5 Cetane Number, 0.035 Wt.% Sulfur; Reference ISO8178-5, 40CFR86.1313-98 Type 2-D and ASTM D975 No. 2-D.
Fuel Temperature: 99 ± 9 °F (at fuel pump inlet)
Intake Air Temperature: 77 ± 9 °F
Barometric Pressure: 29.6 ± 1 in. Hg
Humidity: NOx measurement corrected to 75 grains H2O/lb dry air
Reference Standard: ISO 8178

The NOx, HC, CO and PM emission data tabulated here were taken from a single engine under the test conditions shown above. Data for the other components are estimated. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may results in elevated emission levels.

Power Generation

EPA Tier 3 Exhaust Emission Compliance Statement

200DSHAC

60 Hz Diesel Generator Set

Compliance Information:

The engine used in this generator set complies with the Tier 3 emissions limits of U.S EPA New Source Performance Standards for Stationary Emergency engines under the provisions of 40 CFR 60 Subpart IIII when tested per ISO 8178 D2.

Engine Manufacturer:	Cummins Inc.
EPA Certificate Number:	CEX-STATCI-11-21
Effective Date:	10/14/2010
Date Issued:	10/14/2010
EPA Diesel Engine Family:	BCEXL0540AAB
CARB Executive Order:	

Engine Information:

Model:	Cummins Inc. QSL9-G2 NR3	Bore:	4.49 in. (114 mm)
Engine Nameplate HP:	364		
Type:	4 Cycle, In-line, 6 Cylinder Diesel	Stroke:	5.69 in. (145 mm)
Aspiration:	Turbocharged and CAC	Displacement:	543 cu. in. (8.9 liters)
Compression Ratio:	16.8:1		
Emission Control Device:	Turbocharged and CAC		

U.S. Environmental Protection Agency NSPS Stationary Emergency Tier 3 Limits

COMPONENT	(All values are Grams per HP-Hour)
NOx + HC (Oxides of Nitrogen as NO2 + Non Methane Hydrocarbons)	3.0
CO (Carbon Monoxide)	2.6
PM (Particulate Matter)	0.15

Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

Power Generation

Exhaust Emission Data Sheet
250DQDAA
60 Hz Diesel Generator Set
EPA NSPS Stationary Emergency

Engine Information:

Model:	Cummins Inc. QSL9-G7 NR3	Bore:	4.49 in. (114 mm)
Type:	4 Cycle, In-line, 6 Cylinder Diesel	Stroke:	5.69 in. (145 mm)
Aspiration:	Turbocharged and CAC	Displacement:	543 cu. in. (8.9 liters)
Compression Ratio:	16.1:1		
Emission Control Device:	Turbocharger and CAC		

	1/4	1/2	3/4	Full	Full
PERFORMANCE DATA	**Standby**	**Standby**	**Standby**	**Standby**	**Prime**
Engine HP @ Stated Load (1800 RPM)	95.5	191	286.5	382	342
Fuel Consumption (gal/hr)	5.95	10.50	15.05	19.59	17.69
Exhaust Gas Flow (CFM)	N/A	N/A	N/A	N/A	N/A
Exhaust Temperature (°F)	634	758	844	940	700
EXHAUST EMISSION DATA					
HC (Total Unburned Hydrocarbons)	0.33	0.162	0.09	0.046	0.052
NOx (Oxides of Nitrogen as NO2)	1.67	1.66	2.19	3.42	2.68
CO (Carbon Monoxide)	N/A	N/A	N/A	N/A	N/A
PM (particular Matter)	N/A	N/A	N/A	N/A	N/A
SO2 (Sulfur Dioxide)	0.142	0.132	0.123	0.115	0.12
Smoke (Bosch)	0.53	0.438	0.382	0.238	0.292
					All values are Grams per HP-Hour

TEST CONDITIONS

Data was recorded during steady-state rated engine speed (± 25 RPM) with full load (±2%). Pressures, temperatures, and emission rates were stabilized.

Fuel Specification:	46.5 Cetane Number, 0.035 Wt.% Sulfur; Reference ISO8178-5, 40 CFR86.1313-98 Type 2-D and ASTM D975 No. 2-D.
Fuel Temperature:	99 ± 9 °F (at fuel pump inlet)
Intake Air Temperature:	77 ± 9 °F
Barometric Pressure:	29.6 ± 1 in. Hg
Humidity:	NOx measurement corrected to 75 grains H2O/lb dry air
Reference Standard:	ISO 8178

The NOx, HC, CO and PM emission data tabulated here were taken from a single engine under the test conditions shown above. Data for the other components are estimated. These data are subjected to instrumentation and engine-to-engine variability. Field emission test data are not guaranteed to these levels. Actual field test results may vary due to test site conditions, installation, fuel specification, test procedures and instrumentation. Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may results in elevated emission levels.

Power Generation

2013 EPA Tier 3 Exhaust Emission Compliance Statement
250DQDAA
Stationary Emergency
60 Hz Diesel Generator Set

Compliance Information:

The engine used in this generator set complies with Tier 3 emissions limit of U.S. EPA New Source Performance Standards for stationary emergency engines under the provisions of 40 CFR 60 Subpart IIII when tested per ISO8178 D2.

Engine Manufacturer:	Cummins Inc
EPA Certificate Number:	DCEXL0540AAB-027
Effective Date:	05/07/2012
Date Issued:	05/07/2012
EPA Engine Family (Cummins Emissions Family):	DCEXL0540AAB (B563)

Engine Information:

Model:	QSL / QSL9 / QSL9-G7 NR3	Bore:	4.49 in. (114 mm)
Engine Nameplate HP:	464	Stroke:	5.69 in. (145 mm)
Type:	4 Cycle, In-line, 6 Cylinder Diesel	Displacement:	543 cu. in. (8.9 liters)
Aspiration:	Turbocharged and CAC	Compression Ratio:	16.1:1
Emission Control Device:		Exhaust Stack Diameter:	6 in.

Diesel Fuel Emission Limits

D2 Cycle Exhaust Emissions

	Grams per BHP-hr			Grams per kWm-hr		
	NOx + NMHC	CO	PM	NOx + NMHC	CO	PM
Test Results - Diesel Fuel (300-4000 ppm Sulfur)	2.8	1.7	0.07	3.8	2.3	0.10
EPA Emissions Limit	3.0	2.6	0.15	4.0	3.5	0.20
Test Results - CARB Diesel Fuel (<15 ppm Sulfur)	2.6	1.7	0.07	3.5	2.3	0.09
CARB Emissions Limit	3.0	2.6	0.15	4.0	3.5	0.20

The CARB emission values are based on CARB approved calculations for converting EPA (500 ppm) fuel to CARB (15 ppm) fuel.
Test Methods: EPA/CARB Nonroad emissions recorded per 40CFR89 (ref. ISO8178-1) and weighted at load points prescribed in Subpart E, Appendix A for Constant Speed Engines (ref. ISO8178-4, D2)

Diesel Fuel Specifications: Cetane Number: 40-48. Reference: ASTM D975 No. 2-D.
Reference Conditions: Air Inlet Temperature: 25°C (77°F), Fuel Inlet Temperature: 40°C (104°F). Barometric Pressure: 100 kPa (29.53 in Hg), Humidity: 10.7 g/kg (75 grains H2O/lb) of dry air; required for NOx correction, Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to a maximum allowable limit.

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results.
Engine operation with excessive air intake or exhaust restriction beyond published maximum limits, or with improper maintenance, may result in elevated emission levels.

Model: 1000REOZM

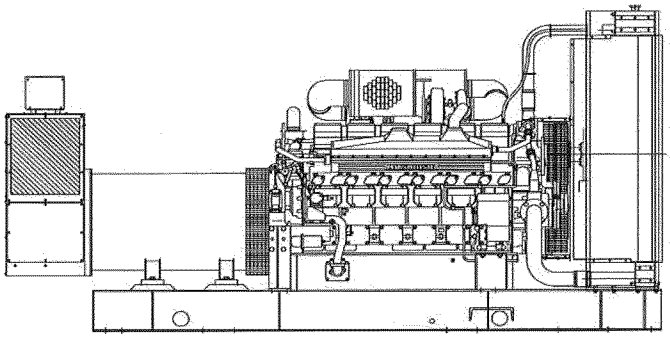
KOHLER POWER SYSTEMS

380-480 V **4-Cycle Diesel**

ISO 9001 KOHLER POWER SYSTEMS NATIONALLY REGISTERED

Ratings Range

		60 Hz	50 Hz
Standby:	**kW**	1010-1020	844-932
	kVA	1263-1275	1055-1165
Prime:	**kW**	920-925	768-852
	kVA	1150-1156	960-1065



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- At 60 Hz the generator set accepts rated load in one step.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to Tier 1 nonroad emissions regulations.
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Generator features:
  - The brushless, rotating-field generator has broadrange reconnectability.
  - The pilot-excited, permanent magnet-excited generator (PMG) provides superior short-circuit capability.
- Other features:
  - Controllers are available for all applications. See controller features inside.
  - The low coolant level shutdown prevents overheating (standard on radiator models only).
  - Integral vibration isolation eliminates the need for under-unit vibration spring isolators.
  - An electronic, isochronous governor delivers precise frequency regulation.
  - 50°C ambient radiators are optional.

Generator Ratings

Alternator	Voltage	Ph	Hz	150°C Rise Standby Rating kW/kVA	Amps	125°C Rise Prime Rating kW/kVA	Amps
	277/480	3	60	1020/1275	1534	925/1156	1391
5M4044	220/380	3	50	910/1138	1728	824/1030	1565
	230/400	3	50	912/1140	1645	828/1035	1494
	240/416	3	50	844/1055	1464	768/960	1332
	220/380	3	50	928/1160	1762	852/1065	1618
7M4046	230/400	3	50	928/1160	1674	852/1065	1537
	240/416	3	50	932/1165	1616	852/1065	1478
7M4170	220/380	3	60	1010/1263	1918	920/1150	1747

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. Prime Power Ratings: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. GENERAL GUIDELINES FOR DERATION: Altitude: Derate 1.0% per 100 m (328 ft.) elevation above 1500 m (4921 ft.). Temperature: Derate 4.0% per 10°C (18°F) temperature above 40°C (104°F). 50Hz ratings are applicable on Singapore built models only.

Alternator Specifications

Specifications		Generator
Type		4-Pole, Rotating-Field
Exciter type		Brushless, Permanent-Magnet Pilot Exciter
Voltage regulator		Solid State, Volts/Hz
Insulation:		NEMA MG1
Material		Class H, Synthetic, Nonhygroscopic
Temperature rise		125°C Prime, 150°C Standby
Bearing: quantity, type		1, Sealed
Coupling		Flexible Disc
Amortisseur windings		Full
Rotor balancing		125%, 60Hz, 150% 50Hz
Voltage regulation, no-load to full-load (with <0.5% drift due to temp Variation)		3-Phase Sensing, ±0.25%
One-step load acceptance		100% of Rating
Unbalanced load capability		100% of Rated Standby Current
Peak motor starting kVA:		(35% dip for voltages below)
480 V, 416 V	5M4044 (4 bus bar)	3900 (60Hz), 3000 (50Hz)
416 V	7M4046 (4 bus bar)	3000 (50Hz)
380 V	7M4170 (4 bus bar)	2500 (60Hz)

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the generator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state, volts-per-hertz voltage regulator with ±0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Application Data

Engine

Engine Specifications	60 Hz	50 Hz
Engine model	D1000 37.1A60	D1000 37.1A50
Engine type	4-Cycle, Turbocharged	
Cylinder arrangement	12-V	
Displacement, L (cu. in.)	37.11 (2265)	
Bore and stroke, mm (in.)	150 x 175 (5.91 x 6.89)	
Compression ratio	14.5 : 1	
Piston speed, m/min. (ft./min.)	630 (2067)	528 (1732)
Main bearings: quantity, type	7, Precision Half-Shell	
Rated rpm	1800	1500
Max. power at rated rpm, kWm (BHP)	1140 (1528)	1020 (1367)
Cylinder head material	Cast Iron	
Crankshaft material	Forged Steel	
Governor: type, make/model	Electronic, Woodward PROACT II	
Frequency regulation, no-load to full-load	Isochronous	
Frequency regulation, steady state	±0.25%	
Frequency	Fixed	
Air cleaner type, all models	Dry	

Exhaust

Exhaust System	60 Hz	50 Hz
Exhaust flow at rated kW, m³/min. (cfm)	266 (9392)	225 (7945)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	546 (1015)	562 (1044)
Maximum allowable back pressure, kPa (in. Hg)	5.9 (1.7)	
Exhaust outlet size at engine hookup, mm (in.)	See ADV drawing	

Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Battery charging alternator:		
Ground (negative/positive)	Negative	
Volts (DC)	24	
Ampere rating	30	
Starter motor rated voltage (DC)	Dual, 24	
Battery, recommended cold cranking amps (CCA):		
Qty., CCA rating above 0°C (32°F)	2, 1000	
Battery voltage (DC)	12	

Fuel

Fuel System	60 Hz	50 Hz
Fuel supply line, min. ID, mm (in.)	25 (1.0)	
Fuel return line, min. ID, mm (in.)	25 (1.0)	
Max. lift, engine-driven fuel pump, m (ft.)	1 (3)	
Max. fuel flow, Lph (gph)	1750 (462)	1500 (396)
Max. fuel pump restriction, kPa (in. Hg)	15 (4.3)	
Fuel filter: quantity, type	4, Cartridge	
Recommended fuel	#2 Diesel	

Lubrication

Lubricating System	60 Hz	50 Hz
Type	Full Pressure	
Oil pan capacity, L (qt.)	180 (190)	
Oil pan capacity with filter, L (qt.)	200 (211)	
Oil filter: quantity, type	5, Cartridge	
Oil Cooler	Water-Cooled	

Application Data

Cooling

Radiator System	60 Hz	50 Hz
Ambient temperature, °C (°F)	40 (104)	
Engine jacket water capacity, L (gal.)	100 (26.4)	
Radiator system capacity, including engine, L (gal.)	280 (74)	
Engine jacket water flow, Lpm (gpm)	1450 (383)	1200 (317)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	734 (41752)	620 (35282)
Water pump type	Centrifugal	
Fan diameter, including blades, mm (in.)	1524 (60)	
Fan, kWm (HP)	40 (53.5)	26.3 (32.2)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	0.125 (0.5)	

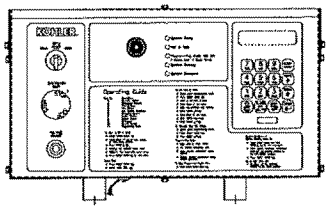
Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m3/min. (scfm) ~	1980 (69923)	1650 (58269)
Combustion air, m3/min. (cfm)	101 (3566)	85 (3001)
Heat rejected to ambient air:		
Engine, kW(Btu/min.)	88 (5010)	74 (4234)
Generator, kW (Btu/min.)	54 (3050)	53 (3020)

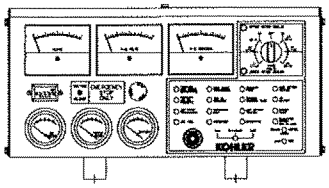
~ Air density = 1.20 kg/m3 (0.075 lbm/ft3)

Fuel Consumption	60 Hz	50 Hz
Diesel, Lph (gph) at % load	**Standby Rating**	
100%	283 (74.8)	239 (63.1)
75%	211 (55.8)	180 (47.6)
50%	147 (38.9)	126 (33.3)
25%	82 (21.7)	68 (18.1)
Diesel, Lph (gph) at % load	**Prime Rating**	
100%	256 (67.6)	217 (57.3)
75%	194 (51.2)	165 (43.6)
50%	137 (36.2)	116 (30.6)
25%	80 (21.1)	65(17.3)

Controllers



Decision-Maker™ 550 Controller
Audiovisual annunciation with NFPA 110 Level 1 capability.
Programmable microprocessor logic and digital display features.
Generator safeguard circuit protection.
12- or 24-volt engine electrical system capability.
Remote start, remote annunciation, and remote communication options.
Refer to G6-46 for additional controller features and accessories.



Decision-Maker™ 3+, 16-Light Controller
Audiovisual annunciation with NFPA 110 Level 1 capability.
Microprocessor logic, AC meters, and engine gauge features.
12- or 24-volt engine electrical system capability.
Remote start, prime power, and remote annunciation options.
Refer to G6-30 for additional controller features and accessories.

KOHLER CO., Kohler, Wisconsin 53044 USA
Phone 920-565-3381, Fax 920-459-1646
For the nearest sales and service outlet in the
US and Canada, phone 1-800-544-2444
www.KohlerPowerSystems.com

Kohler Power Systems
Asia Pacific Headquarters
7 Jurong Pier Road
Singapore 619159
Phone (65) 6264 6422 Fax (65) 6264 6455
www.kohler.com.sg

Standard Features and Accessories

Additional Standard Features

- Alternator Protection (standard with Decision-Maker™ 550)
- Electronic, Isochronous Governor
- Oil Drain Extension
- Operation and Installation Literature
- Pilot-Excited, Permanent Magnet Generator (PMG)

Accessories

Open Unit

- ❑ Exhaust Silencer, Hospital
- ❑ Exhaust Silencer, Critical
- ❑ Flexible Exhaust Connector, Stainless Steel

Enclosed Unit

- ❑ Sound Enclosure (with roof-mounted hospital silencer)
- ❑ Weather Enclosure (with roof-mounted critical silencer)

Cooling System

- ❑ Block Heater
  [recommended for ambient temperatures below 20°C (68°F)]
- ❑ City Water Cooling
- ❑ Radiator Duct Flange
- ❑ Remote Radiator Cooling

Fuel System

- ❑ Flexible Fuel Lines
- ❑ Fuel/Water Separator
- ❑ Fuel Pressure Gauge
- ❑ Subbase Fuel Tank with Day Tank

Electrical System

- ❑ Battery
- ❑ Battery Charger, Equalize/Float Type
- ❑ Battery Heater
- ❑ Battery Rack and Cables

Engine and Generator

- ❑ Air Cleaner, Heavy Duty
- ❑ Air Cleaner Restriction Indicator
- ❑ Bus Bar Kits (standard on 7M generators, 380-600 volt only)
- ❑ Generator Strip Heater
- ❑ Line Circuit Breaker (NEMA1 enclosure)
- ❑ Line Circuit Breaker with Shunt Trip (NEMA1 enclosure)
- ❑ NFPA 110 Literature
- ❑ Rated Power Factor Testing
- ❑ Safeguard Breaker (not available with Decision-Maker™ 550)
- ❑ Spring Isolators

Paralleling System

- ❑ Load-Sharing Module
- ❑ Reactive Droop Compensator
- ❑ Remote Speed Adjusting Control / Electronic Governor
- ❑ Voltage Adjustment Control (manual)
- ❑ Voltage Regulator Relocation Kit

Maintenance and Literature

- ❑ General Maintenance Literature Kit
- ❑ Maintenance Kit (includes air, oil, and fuel filters)
- ❑ Overhaul Literature Kit
- ❑ Production Literature Kit

Controller

- ❑ Common Failure Relay Kit
- ❑ Communications Products and PC Software
  (Decision-Maker™ 550 controller only)
- ❑ Customer Connection Kit
- ❑ Dry Contact Kit (isolated alarm)
- ❑ Engine Prealarm Sender Kit
- ❑ Remote Annunciator Panel
- ❑ Remote Audiovisual Alarm Panel
- ❑ Remote Emergency Stop Kit
- ❑ Remote Mounting Cable
- ❑ Run Relay Kit

Miscellaneous Accessories

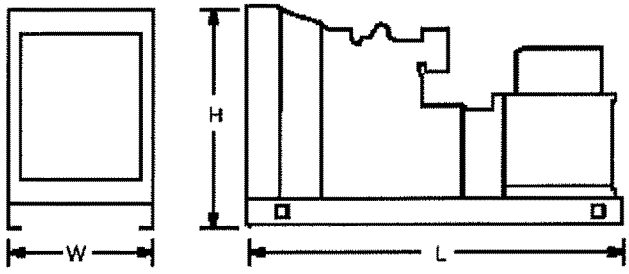
- ❑ _____
- ❑ _____
- ❑ _____
- ❑ _____
- ❑ _____
- ❑ _____

Dimensions and Weights

Overall Size, L x W x H, mm (in.):

w/5M4044	4575 x 2050 x 2228 (180.1 x 80.7 x 87.7)
w/7M4046	4625 x 2050 x 2228 (182.1 x 80.7 x 87.7)
w/7M4170	4435 x 2050 x 2228 (174.6 x 80.7 x 87.7)

Weight (radiator model), wet, max., kg (lb.): 8750 (19275)



NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

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Maricopa County
Air Quality Department

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MARICOPA COUNTY
AIR QUALITY DEPARTMENT

Maricopa County Air Quality Department
1001 N Central Ave, Suite 125, Phoenix, AZ 85004
Phone (602) 506-6010 Fax (602) 372-0587
AQPermits@mail.maricopa.gov

RULE 310 DUST CONTROL PLAN (for a facility operating under a Non-Title V, Title V or General Permit)

For Office Use Only		
Approved By:	Date:	Permit Number:

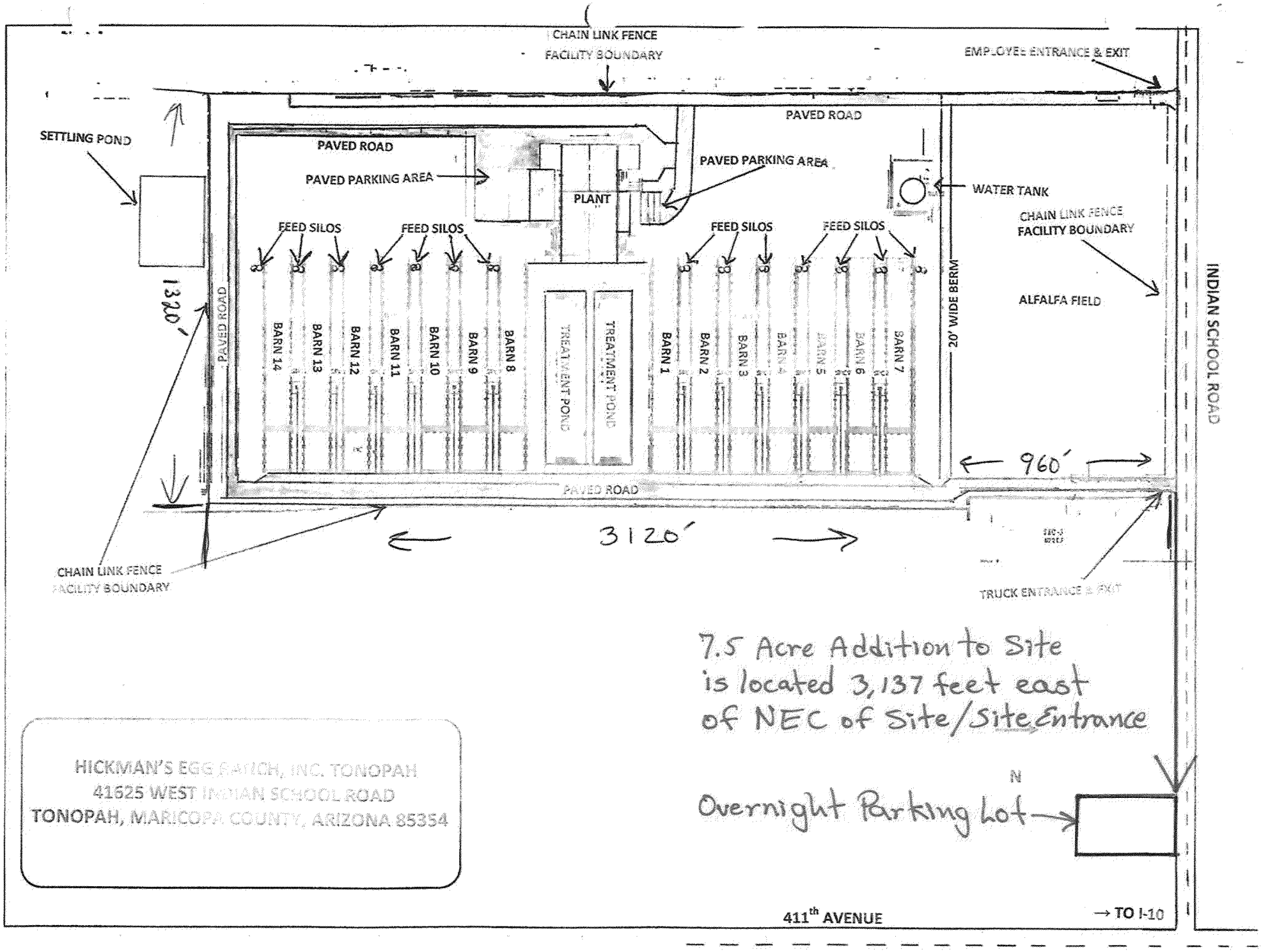
If your facility will routinely generate dust, disturb a surface area of at least 1/10 of an acre, and operate under a Non-Title V, Title V or General Permit, then you must complete and submit this dust control plan prior to beginning dust-generating operations (Rule 310 §302.3). Attach this Dust Control Plan to the Air Permit Permit Application and return them to the address listed above.

Note: Earthmoving operations (and other dust-generating operations not associated with stationary sources or facilities) require a Dust Control Permit.

If you have questions about the type of permit your facility requires, or whether it requires a permit, please call the Permitting Department at (602)506-6010 or our Small Business Assistance Office at (602)506-5102, or visit our website at: http://www.maricopa.gov/aq/divisions/permit_engineering/do_I_need_a_permit.aspx.

Section 1: Basic Information

1a. Facility Information			
Type of Facility: Egg Producer			
Type of Permit: ☐ Title V ☒ Non-Title V ☐ General		Permit Number:	140062-404741
Facility Name: Hickman's Egg Ranch, Inc. Tonopah			
Facility Address: 41625 West Indian School Rd.			
City: Tonopah	State: AZ	Zip: 85354	
Phone: 623-872-1120	Fax:	Email Address: www.hickmanseggs.com	
Mailing Address			
Is the mailing address the same as the address given above? ☐ Yes ☒ No			
Facility Name: Hickman's Egg Ranch, Inc.			
Facility Address: 6515 South Jackrabbit Trail			
City: Buckeye	State: AZ	Zip: 85326	
1b. Person responsible for submitting the Dust Control Plan			
Printed Name: Francisco G. ruiz			
Signature:	Date 09-Sep-14		
Title: Safety & health Coordinator	Company Name: Hickman's Egg Ranch, Inc.		
On-Site Phone: 623-872-1120	Mobile: 623-764-3878	Fax: 623-474-6392	
Email Address: fruiz@hickmanseggs.com			
1c. Person responsible for implementation of the Dust Control Plan			
Name: Terry Burt			
Title: Production Manager	Company Name: Hickman's Egg Ranch, Inc.		
On-Site Phone: 623-872-1120	Mobile: 623-377-8411	Fax:	
Email Address: tburt@hickmanseggs.com			


CHAIN LINK FENCE
FACILITY BOUNDARY
EMPLOYEE ENTRANCE & EXIT
PAVED ROAD
SETTLING POND
PAVED ROAD
PAVED PARKING AREA
PAVED PARKING AREA
PLANT
WATER TANK
CHAIN LINK FENCE
FACILITY BOUNDARY
FEED SILOS
FEED SILOS
FEED SILOS
FEED SILOS
ALFALFA FIELD
1320'
PAVED ROAD
BARN 14
BARN 13
BARN 12
BARN 11
BARN 10
BARN 9
BARN 8
TREATMENT POND
TREATMENT POND
BARN 1
BARN 2
BARN 3
BARN 4
BARN 5
BARN 6
BARN 7
20' WIDE BERM
INDIAN SCHOOL ROAD
960'
PAVED ROAD
3120'
CHAIN LINK FENCE
FACILITY BOUNDARY
TRUCK ENTRANCE & EXIT
7.5 Acre Addition to Site
is located 3,137 feet east
of NEC of Site/Site Entrance
N
Overnight Parking Lot
HICKMAN'S EGG RANCH, INC. TONOPAH
41625 WEST INDIAN SCHOOL ROAD
TONOPAH, MARICOPA COUNTY, ARIZONA 85354
411th AVENUE
→ TO I-10

Maricopa County
Air Quality Department

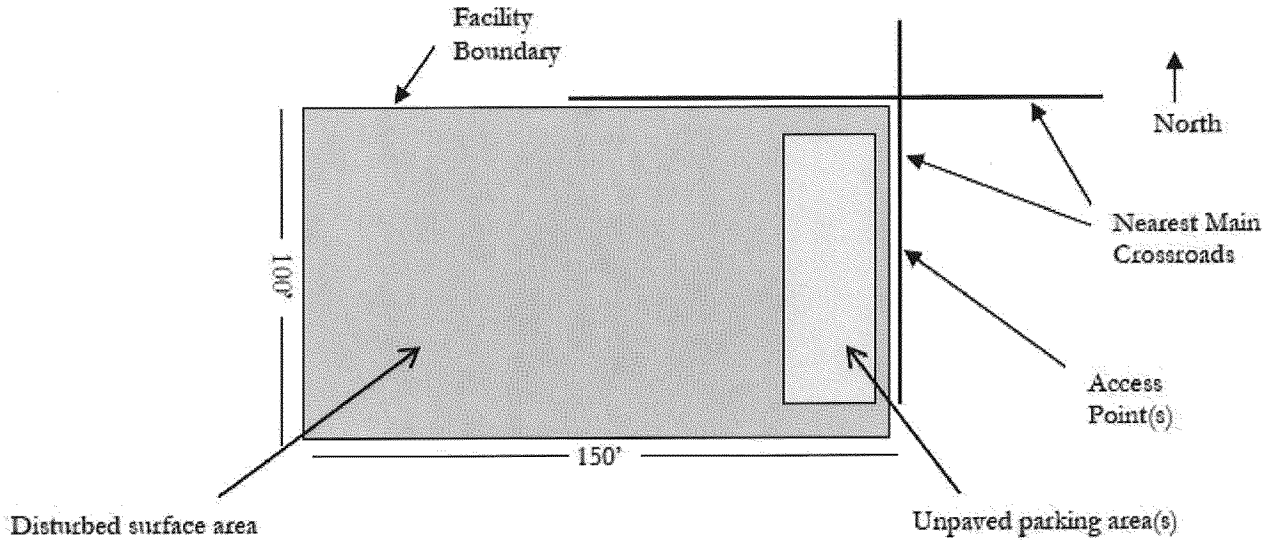
Maricopa County Air Quality Department
1001 N Central Ave, Suite 125, Phoenix, AZ 85004
Phone (602) 506-6010 Fax (602) 372-0587
AQPermits@mail.maricopa.gov

Section 2: Site Drawing

Attach a separate page (8½ x 11") with a drawing showing all of the following elements:

- Entire facility boundaries
- Disturbed area with linear dimensions or certification of square footage (including staging areas, stockpiles, access and haul roads, parking, driveways, and storage)
- Nearest main crossroads
- North arrow
- Access point(s) - Planned exit locations onto paved areas accessible to the public
- Perimeter of unpaved parking lot(s)

Example (simplified, not to scale):



Section 3: Control Measures

Control measures must be implemented before, after, and while conducting any dust-generating operation, including during weekends, after work hours, and on holidays.

Primary and Contingency Control Measures

Every category (except Category A) and/or sub-category requires at least one Primary control measure and at least one Contingency control measure. Contingency control measures are the back-up or secondary action(s) that need to be implemented immediately when the primary control measure(s) fail to adequately control dust emissions at the facility.

To indicate your choice, select them in the drop-down lists next to 'primary' or 'contingency'. To add additional measures, click 'Add Primary' or 'Add Contingency' to the right of the drop-downs. To remove measures, click 'Remove Primary' or 'Remove Contingency' to the right of the drop-downs.

Maricopa County
Air Quality Department

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RULE 310 DUST CONTROL PLAN (for a facility operating under a Non-Title V, Title V or General Permit)

Required Control Measures

Some categories have required control measures. Every control measure with a description that begins with 'Required' is a required control measure. In addition to the required primary measure(s), at least one contingency measure must be chosen for these dust-generating operations if they are applicable to your facility (except in Category A).

Categories and/or sub-categories that are not applicable

In some categories, when a category and/or sub-category does not apply to the facility, this must be acknowledged by completely filling out the final entry in the category and/or sub-category. An explanation must be supplied for WHY the category and/or sub-category is not applicable. Simply writing "NA" or "not applicable" is not sufficient.

'Other' as a Primary Dust Control Measure

If 'Other' is selected as a primary dust control measure in any section of this Plan, then the measure must clearly meet the requirements of Rule 310 for any dust-generating operation. Attach a separate sheet, if needed, for the description. MCAQD will apply the following minimum criteria when evaluating any unlisted dust control measures:

The dust control measure technique is a new or alternative technology that is demonstrated to be equally or more effective in meeting the dust control requirements than the listed dust control measures;

Site logistics do not practically allow for implementation of a listed dust control measure as written (e.g., road width or pre-existing barriers limit the size or width of a gravel pad); and

The owner and/or operator demonstrates that a listed dust control measure is technically infeasible due to site-specific or material-specific conditions, such that implementation of the dust control measure will not provide a benefit in reducing fugitive dust (e.g., pre-soaking screened, washed rock when handling).

After your Permit Application and Duct Control Plan have been approved, you must post your Authority to Operate along with this Dust Control Plan on-site, as required by Section 4(E) of the General Permit to Operate and/or Construct for Stationary Dust-Generating Sources and County Rule 200, Section 312.

Category A: Wind-Blown Dust

If wind conditions cause fugitive dust to exceed the 20% opacity requirement (Rule 310, Section 303.1(a)), then the following actions must be performed.

NOTE that there must be a plan to address a possible wind-blown dust event when no one is on site, such as on a weekend or a holiday.

Required: Ensure that all control measures and requirements of the Dust Control Plan are implemented and that violations cannot be prevented by better application, operation, or maintenance of these measures and requirements.

Required: Cease dust-generating operations.

Required: Stabilize any disturbed surface area (as specified in Rule 310, Section 304.3). Select one or more of the following stabilization methods:

- ☒ Maintain a soil crust.
- ☐ Maintain a threshold friction velocity (TFV) for disturbed surface areas corrected for non-erodible elements of 100 cm/second or higher.
- ☐ Maintain a vegetative ground cover.
- ☒ Other: A water truck will be used throughout the day watering any disturbed surface area a

Required: Compile records consistent with Rule 310, Sections 502 and 503 and document the implementation of control measures and other Dust Control Plan requirements.

Category B: Will Vehicles/Motorized Equipment Be Used on Either of the Following?

B.1 Will Vehicles/Motorized Equipment Be Used on Unpaved Staging Areas, Unpaved Parking Areas, and/or Unpaved Storage Areas?

■ Yes ☐ No

Primary	Pave				Add Primary	Remove Primary
Contingency	Apply and maintain dust suppressants other than water (complete add'l info below)				Add Contingency	Remove Contingency
Contingency	Apply water				Add Contingency	Remove Contingency
Dust Suppressant Information		Frequency of application	Yearly	Amount	RhinoSnot per mjg rec's	
Attach a copy of the Materials Safety Data Sheet (MSDS) for all dust suppressants other than water to be used in this facility						

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Air Quality Department

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Phone (602) 506-6010 Fax (602) 372-0587
AQPermits@mail.maricopa.gov

B.2 Will Vehicles/Motorized Equipment Be Used on Unpaved Access Areas/Haul Roads? ■ Yes ☐ No

Primary	Pave	Add Primary	Remove Primary
Contingency	Apply water	Add Contingency	Remove Contingency

Category C: Bulk Material Handling

Note: The requirements in this section are in addition to the track-out control and cleaning requirements in Section E (below).

C.1 Will Materials be Hauled from the Site onto or crossing Areas Accessible to the Public? ☐ Yes ■ No

C.2 Will Materials be Hauled or Tansported within the Boundaries of the Work Site (but will not cross an Area Accessible to the Public)? ☐ Yes ■ No

C.3 Will Materials be Hauled or Transported within the Boundaries of the Work Site (AND will also cross or access an Area Accessible to the Public while doing so)? ☐ Yes ■ No

If materials will be hauled or transported within the work site by travelling along the side of the work site, and the area where the materials will be hauled is not barricaded to prevent public access, then answer YES to this question.
If materials will be hauled or transported within the work site by travelling across an area accessible to the public, then answer YES to this question.

C.4 Will Bulk Materials be Loaded, Unloaded, and/or Stacked? ☐ Yes ■ No

C.5 Will there be Open Storage Piles for Any Amount of Time? ☐ Yes ■ No

Category D: Trackout, Carry-out, Spillage, and Erosion

D.1 Cleaning

Trackout/carry-out must be cleaned up immediately if trackout/carry-out extends a cumulative distance of 25 linear feet or more along a paved area accessible to the public (including curbs, gutters, and sidewalks).
All other trackout/carry-out must be cleaned up no later than the end of the work day. (End of Work Day is the end of a working period that may include one or more work shifts. If working 24 hours a day, the end of a working period shall be considered no later than 8:00 p.m.)

Primary	Other (specify below)	Add Primary	Remove Primary
Contingency	Other (specify below)	Add Contingency	Remove Contingency
Other:	The facility entrance/egress will be pave and the overnight parking lot entrance/egress will have gravel		

D.2 Trackout Control Device

Does this site have 2 or more acres of disturbed surface area? ■ Yes ☐ No

Will 100 or more cubic yards of bulk material be hauled on-site or off-site each day? ■ Yes ☐ No

Required: Install, maintain, and use, at all exits to an area accessible to the public, a suitable trackout control device that controls and prevents trackout and/or removes particulate matter from tires and the exterior surfaces of haul trucks and/or motor vehicles that traverse the site. Choose at least one of the following:

☐ gravel pad ☐ grizzly or rumble grate ☐ wheel wash system ☒ paved area

Other Primary (In Addition to Above)		Add Primary	Remove Primary
Contingency	Other (specify below)	Add Contingency	Remove Contingency
Other:	gravel pad at the entrance/egress of the overnight parking lot		

Maricopa County
Air Quality Department

Maricopa County Air Quality Department
1001 N Central Ave, Suite 125, Phoenix, AZ 85004
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Category E: Weed Abatement by Discing or Blading

Will there be any weed abatement by discing or blading on this site? ■ Yes ☐ No

E.1 Disturbance Operations before and during Weed Abatement

Required: Pre-water site AND apply water during weed abatement by discing or blading.			
Contingency	Cease operations	Add Contingency	Remove Contingency

E.2 Stabilization following Weed Abatement

Primary	Pave immediately following weed abatement	Add Primary	Remove Primary
Contingency	Apply gravel	Add Contingency	Remove Contingency

Category F: Blasting Operations

Will there be any blasting on this site? ☐ Yes ■ No

Click the button below to check to see if required fields have been completed. If any required fields need attention, follow the instructions in the pop-up boxes and complete any parts of the form highlighted in orange.

If no messages are received after clicking the button below, then all required fields have been completed.

NOTE: This process does **not** check for completion of any additional boxes that popped up based on your choices.

Check Form for Required Fields

ENVIROTAC II

RhinoSnot

MSDS

Material Safety Data Sheet

1) PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Envirotac II

Revision Date: April, 2013

Supplier: Environmental Products & Applications
78-900 Avenue 47, Suite 106
La Quinta, CA 92253
Ph: 760-777-8035 Fax: 760-771-9137 www.envirotac.com

Emergency telephone number:

Spill Emergency	888-674-9174
Health Emergency	888-674-9174
Chemtrec	800-424-9300

2) COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Acrylic polymer(s)	Not Hazardous	28.0-43.0%
Individual residual monomers	Not Required	<0.01%
Aqua ammonia	1336-21-6	<1.0%
Water	7732-18-5	57.0-61.0%

3) HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form: liquid milky

Colour white

Hazard Summary **CAUTION!**
INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS. MAY CAUSE EYE/SKIN IRRITATION.

Potential Health Effects

Primary Routes of Entry:
Inhalation
Eye Contact
Skin Contact

Eyes: Direct contact with material can cause the following:	Slight Irritation
Skin: Prolonged or repeated skin contact can cause the following:	Slight Irritation
Inhalation: Inhalation or vapor mist can cause the following:	Irritation of nose, throat , and lungs. Headache. Nausea

4) FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin Contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye Contact: Rinse with plenty of water. If eye irritation persists, consult a specialist.

Ingestion: Drink 1 or 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

5) FIRE FIGHTING MEASURES

Flash point	Noncombustible
Lower explosion limit	Not Applicable
Upper explosion limit	Not Applicable
Thermal decomposition	Thermal decomposition may yield acrylic monomers.
Suitable extinguishing	Use extinguishing media appropriate for surrounding fire.
Specific hazards during fire fighting:	Material can splatter above 100C/212F. Dried product can burn.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions:
Use personal protective equipment.
Keep people away from an upwind of spill/leak.
Material can create slippery conditions.

Environmental precautions:
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods for cleaning up:
Contain spills immediately with inert materials (e.g., sand, earth).
Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

ENVIROTAC II

7) HANDLING AND STORAGE

Handling:
Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

Further information on storage conditions:
Keep from freezing-product stability may be affected. STIR WELL BEFORE USE.

8) PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	
Form	Liquid Milky
Colour	White
pH:	5.0 - 9.5
Boiling point/range:	100C (212.00F) Water
Flash point:	Noncombustible
Lower explosion limit:	Not Applicable
Upper explosion limit:	Not Applicable
Vapour pressure:	22.6666 mmHg at 20C (68.00F) Water
Vapour pressure:	22.6648 Pa at 20C (68.00F) Water
Relative vapour density:	<1.0 Water
Water solubility:	Dilutable
Relative density:	1.00 - 1.20
Viscosity, dynamic:	1,500.000 mPa.s maximum
Evaporation rate:	<1.00 Water
Percent volatility:	57-61 %

NOTE: The physical data presented above are typical values and should not be construed as a specification.

9) STABILITY AND REACTIVITY

Hazardous reactions: None known. Stable

Materials to avoid: There are no materials which are incompatible with this product.

Polymerization: Product will not undergo polymerization.